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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,124	07/07/2003	Hiroshi Daiku	100021-00127	8185
4372	7590	11/20/2006	EXAMINER	
AREN'T FOX PLLC			HERNANDEZ, NELSON D	
1050 CONNECTICUT AVENUE, N.W.			ART UNIT	PAPER NUMBER
SUITE 400				
WASHINGTON, DC 20036			2622	

DATE MAILED: 11/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/613,124	DAIKU ET AL.	
	Examiner	Art Unit	
	Nelson D. Hernandez	2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 07 July 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-6 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 07 July 2003 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____. |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>7/7/03 & 10/10/06</u> . | 6) <input type="checkbox"/> Other: _____. |

DETAILED ACTION

Claim Objections

1. Claim 4 is objected to because of the following informalities: in line 1, "The pixel data processing ..." should be written as "A pixel data processing ...". Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. **Claims 1-6 rejected under 35 U.S.C. 102(b) as being anticipated by Smith, US Patent 5,418,565.**

Regarding claim 1, Smith discloses a resolution conversion method for converting color data output from a single-plate-type color-image sensor (CCD 28 as shown in fig. 3) into data of a predetermined resolution (Col. 6, lines 11-30) and at the same time, processing the color data so that the pixel positions of respective colors coincide with each other (Col. 6, lines 11-64), wherein resolution conversion processing that converts the data of each pixel into data of the predetermined resolution and simultaneous processing that processes the color data so that the pixel positions of

respective colors coincide with each other are performed simultaneously in a circuit (DSP 64 as shown in fig. 3) (Col. 2, lines 45-59; col. 6, line 11 – col. 7, line 36).

Regarding claim 2, Smith discloses that the resolution conversion processing and the simultaneous processing perform weighting operations on the color data of pixels including each pixel and neighboring pixels adjacent to said each pixel (See fig. 6; col. 6, line 45 – col. 7, line 22).

Regarding claim 3, Smith discloses that the plural processes to convert the color data into different resolutions are stored in advance and some of the plural processes are selected and executed according to an external direction (Switch 88b to select different resolutions as shown in fig. 3; col. 6, lines 11-30).

Regarding claim 4, Smith discloses a pixel data processing circuit (DSP 64 as shown in fig. 3) comprising a resolution conversion/simultaneous processing circuit that converts color data output from a single-plate-type color-image sensor (CCD 28 as shown in fig. 3) into data of a predetermined resolution directed from the outside (Switch 88b to select different resolutions as shown in fig. 3; col. 6, lines 11-64) and, at the same time, that processes the color data so that the pixel positions of respective colors coincide with each other (Col. 6, lines 11-64), wherein the resolution conversion/simultaneous processing circuit performs simultaneously the resolution conversion processing that converts the data of each pixel into data of the predetermined resolution and the simultaneous processing that processes so that the pixel positions of respective colors coincide with each other (Col. 2, lines 45-59; col. 6, line 11 – col. 7, line 36).

Regarding claim 5, Smith discloses that the resolution conversion/simultaneous processing circuit performs weighting operations on the color data of pixels including each pixel and neighboring pixels adjacent to said each pixel (See figs. 6-8, col. 6, line 11 – col. 7, line 36).

Regarding claim 6, Smith discloses that the resolution conversion/simultaneous processing circuit stores plural processes to convert the color data into different resolutions and selects and executes some of the plural processes according to a direction from the outside (Switch 88b to select different resolutions as shown in fig. 3; col. 6, lines 11-30).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nelson D. Hernandez whose telephone number is (571) 272-7311. The examiner can normally be reached on 8:30 A.M. to 6:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivek Srivastava can be reached on (571) 272-7304. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

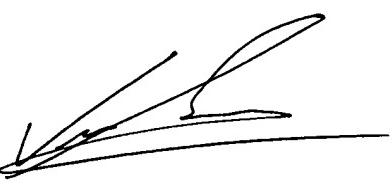
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

Art Unit: 2622

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nelson D. Hernandez
Examiner
Art Unit 2622

NDHH
October 30, 2006



VIVEK SRIVASTAVA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600